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(54) Title: VARIATION IN DRUG RESPONSE RELATED TO POLYMORPHISMS IN β_2 -ADRENERGIC RECEPTOR

(57) Abstract: A method for predicting an individual's response to the β -agonists salmeterol, albuterol, metaproterenol, terbutaline and formoterol is disclosed. Individuals expressing the Ile164 β_2 AR variant are likely to exhibit a reduced response as compared to individuals expressing the Thr164 β_2 AR variant. The method is useful for making treatment decisions for patients suffering from asthma and chronic obstructive pulmonary diseases.